BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAAPURA

Name of Work: Estimate for Improvements to Roads and Drains at Doddabommasandra and Surrounding area in Ward No. 10 (Doddabommasandra).

Job Code: 010-20-000070

P-Code: P-3296

Estimated Cost: Rs. 40.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads And Drains at Doddabommasandra and Surrounding Area in Ward No. 10 (Doddabommasandra).

Estimation Cost.Rs 4000000.00

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1)								
	New Drain								
	1st Seetamma Layout	Cum	1	220.00	1.20	1.05	277.20		
	Venugopal Swammy Temple	Cum	1	50.00	1.60	1.20	96.00		
	For Culvert								
		Cum	5	6.80	2.10	1.10	78.54		
	Drain Desilt								
	1st Seetamma Layout	Cum	1	177.00	0.60	0.55	58.41		
	Basic rate							130.00	
	Area weightage 6%							7.80	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**510.15**	**207.60**	**105907.14**
2	Providing granite 10 cms thick slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete								
	1st Seetamma Layout								
		Sqm	1	177.00	0.90		159.30		
	Missing Cover Slab 35%						55.76		
	Basic rate							912.00	
	Area weightage 6%							54.72	
						Total	55.76	966.72	53899.47
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 P-13								
	New Drain								
	1st Seetamma Layout	Cum	1	220.00	1.10	0.15	36.30		
	Venugopal Swammy Temple	Cum	1	50.00	1.60	0.15	12.00		
	For Culvert								
		Cum	5	6.80	2.10	0.15	10.71		
	For Drain Side Filling								
	1st Seetamma Layout	Cum	1	220.00	0.15	0.15	4.95		
	Venugopal Swammy Temple	Cum	1	50.00	0.15	0.15	1.13		
	Basic rate							5194.00	
	Area weightage 6%							311.64	
						Total	**65.09**	**5505.64**	**358334.58**
4	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Bottom Raft								
	1st Seetamma Layout	Cum	1	220.00	0.90	0.15	29.70		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Venugopal Swammy Temple	Cum	1	50.00	1.20	0.15	9.00		
	For Culvert								
		Cum	5	6.80	1.80	0.20	12.24		
	Walls								
	1st Seetamma Layout	Cum	2	220.00	0.15	0.75	49.50		
	Venugopal Swammy Temple	Cum	2	50.00	0.15	1.20	18.00		
	For Culvert								
		Cum	10	6.80	0.20	0.75	10.20		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						**128.64**	**7070.20**	**909510.53**
5	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Tonne		106.20	0.075		7.97		
	For Culvert	Tonne		22.44	0.095		2.13		
	Basic rate							68233	
	Area weightage 6%							4093.98	
	Total						**10.10**	**72326.98**	**730271.05**
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Drain cover slab								
	Venugopal Swammy Temple	Sqm	1	50.00	1.20		60.00		
	1st Seetamma Layout	Sqm	1	220.00	0.90		198.00		
	Data rate							**2337.00**	
	Total						**258.00**	**2337.00**	**602946.00**
7	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	For Drain Side Filling								
	1st Seetamma Layout	Cum	1	220.00	0.15	0.15	4.95		
	Venugopal Swammy Temple	Cum	1	50.00	0.15	0.15	1.13		
	Basic rate							5422.00	
	Area weightage 6%							325.32	
	Total						**6.08**	**5747.32**	**34914.97**
8	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Culvert cover Slab								
	Culvert	Sqm	5	6.80	1.80		61.20		
	Data rate							**5418.00**	
	Total						**61.20**	**5418.00**	**331581.60**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
9	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Near KK Layout	Cum	1	46.80	5.50	0.15	38.61		
	Basic rate							41.00	
	Area weightage 6%							2.46	
	5Km lead= (2*1.28*5)							12.80	
	Total						**38.61**	**56.26**	**2172.20**
10	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of modified proctors density. MORTH Specification No. 305 P-147								
	Near KK Layout	Cum	1	46.80	5.50	0.35	90.09		
	Basic rate							325.00	
	Area weightage 6%							19.5	
	Total						**90.09**	**344.50**	**31036.01**
11	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 P-13								
	Near KK Layout	Cum	1	46.80	5.50	0.15	38.61		
	Basic rate							5102.00	
	Area weightage 6%							306.12	
	Total						**38.61**	**5408.12**	**208807.51**
12	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Near KK Layout	Cum	1	46.80	5.50	0.15	38.61		
	Basic rate							4916.00	
	Area weightage 6%							294.96	
	Total						**38.61**	**5210.96**	**201195.17**
								Grand Total	**3570576.22**
								GST Charges (12% of estimated cost)	**428469.15**
								Miscellenious and rounding	**954.63**
								Total Amount	**4000000.00**

ADMINISTRATIVE APPROVAL
Accorded For Rs. 40.00 Lakhs only
Head of A/c. R3296
Div. Ref. No. 09/30-21 Date 19-5-2021
AE 19/05
EE(BTP) 19/05

Technical Sanction
Accorded For Rs. 40.00 Lakhs only
Head of A/C. R3296
CER NO : 09 Dt. 19/05/21
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[illegible] CE (NUK)

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

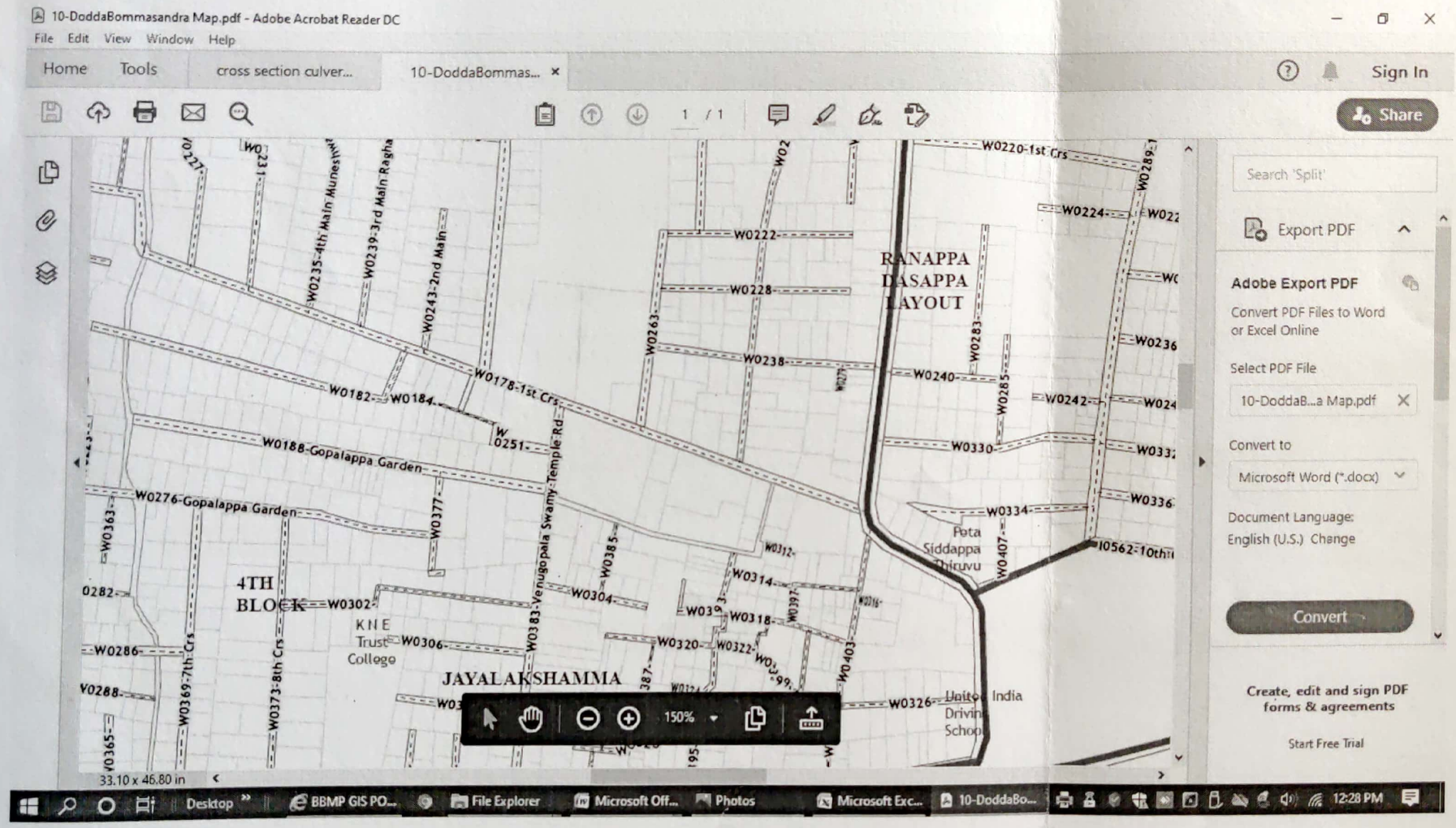
Smitha. N L
Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Executive Engineer
4/05

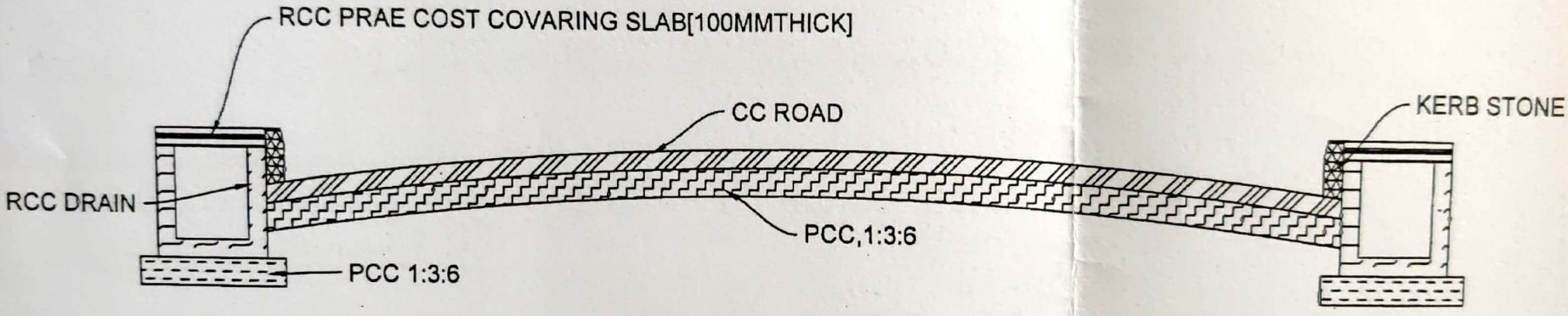
Name of work: Improvements to Roads and Drains at Doddabommasandra and Surrounding area in Ward No. 10 (Doddabommasandra).



Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



CROSS SECTION FOR 'CC'ROAD & RCC,DRAIN

Suretha. N R
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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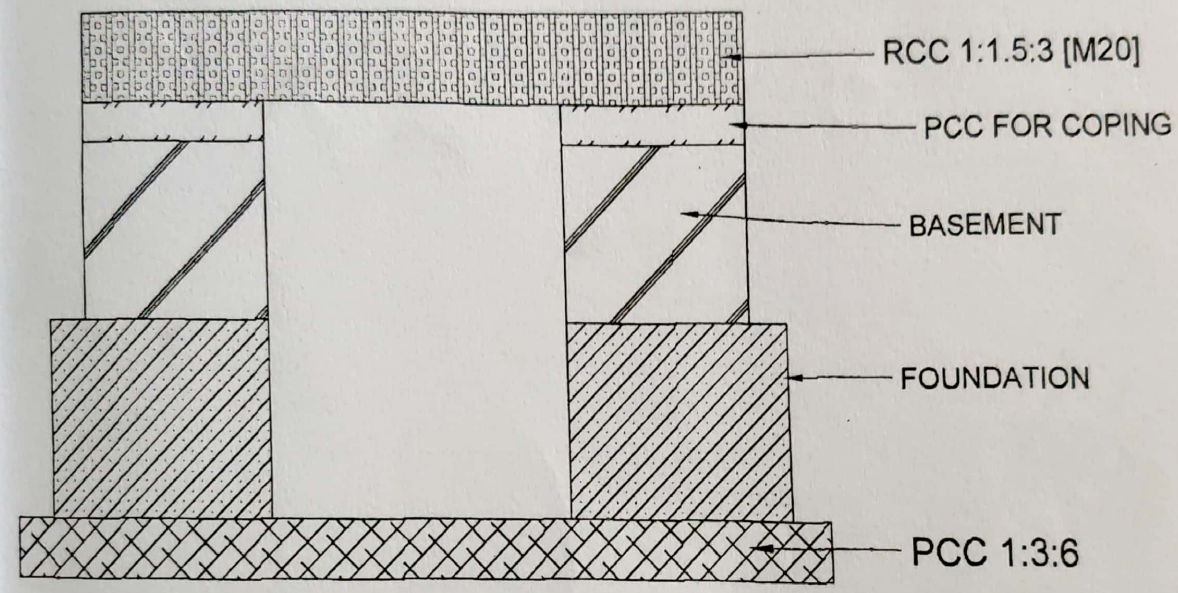

CROSS SECTION FOR CULVERT

Sunitha. N K
AE W10

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